NC/QC/YD/2020-21/W3-VN-C1 Date: 28-12-2020

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to roads and Drains at Viswanagara in ward no-03 of Yelahanka Satellite Town Sub Division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri Sridhar. Y. R, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	158 min	Shall not be less than 30 min
2	Final setting time	265 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	1.96 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	2.03mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	28.96 N/Sq mm	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Vishwanagar Cross Rd-3

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NC/QC/YD/2020-21/W3-VN-FA1 Date: 31-12-2020

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.
{Project*: Improvements to roads and Drains at Viswanagara in ward no-03 of Yelahanka Satellite Town Sub Division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri Sridhar. Y. R, Bangalore.

TABLE - 1.1 : SIEVE ANALYSIS

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	97.55	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	81.60	60-95	75-100	85-100	
01.18	73.25	30-70	55-90	75-100	
600. mic	47.85	15.34	35-59	60-79	
300.mic	24.65	5-20	8-30	12-40	
150.mic	7.40	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	17.63 %	-----
2	Silt Content	----	0.59%	Not more than 8%
3	Specific Gravity	----	2.61	-------

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Vishwanagar.

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NC/QC/YD/2020-21/W3-VN-CA1 Date: 31-12-2020

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.

{Project*: Improvements to roads and Drains at Viswanagara in ward no-03 of Yelahanka Satellite Town Sub Division.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri Sridhar. Y. R, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100 00	100.00
20 mm	97.80	85-100	90 - 100
10 mm	46.25	0 - 20	25 - 55
4.75 mm	3.85	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	26.39%	Not to exceed 25 %
2.	Crushing value	28.74%	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Vishwanagar.

NC/QC/YD/2020-21/W3-VN-CB1 **Date: 11-01-2021**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to roads and Drains at Viswanagara in ward no-03 of Yelahanka Satellite Town Sub Division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri Sridhar. Y. R, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	04-01-21	11-01-21	07	22500	370	16.44	16.67
	002	"	"	"	"	380	16.89	
	003	"	"	"	"	375	16.67	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Vishwanagar Cross Rd-1(#42-Rekha House)

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NC/QC/YD/2020-21/W3-VN-1A

Date: 01-02-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to roads and Drains at Viswanagara in ward no-03 of Yelahanka Satellite Town Sub Division.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri Sridhar. Y. R, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	04-01-21	01-02-21	28	22500	505	22.44	22.81
	002	"	"	"	"	520	23.11	
	003	"	"	"	"	515	22.89	

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Vishwanagar Cross Rd-1(#42-Rekha House)

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NC/QC/YD/2020-21/W3-VN-PCC4 **Date: 20-01-2021**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Improvements to roads and Drains at Viswanagara in ward no-03 of Yelahanka Satellite Town Sub Division.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri Sridhar. Y. R, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	65.25	0 -20	30- 70
10mm	31.90	0 -5	10- 35
4.75mm	4.15	-----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	98.70	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	80.25	60-95	75-100	85-100	
01.18	73.05	30-70	55-90	75-100	
600 mic	45.85	15-34	35-59	60-79	
300 mic	22.10	5-20	8-30	12-40	
150 mic	6.55	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Vishwanagar A-block surrounding

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NC/QC/YD/2020-21/W3-VN-CB6 **Date: 29-01-2021**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to roads and Drains at Viswanagara in ward no-03 of Yelahanka Satellite Town Sub Division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri Sridhar. Y. R, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	22-01-21	29-01-21	07	22500	530	23.56	23.48
	002	"	"	"	"	520	23.11	
	003	"	"	"	"	535	23.78	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Vishwanagar Flag Hosting

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JNANABHARATHI, BANGALORE-560056, CELL NO:

NC/QC/YD/2020-21/W3-VN-5A

Date: 17-02-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to roads and Drains at Viswanagara in ward no-03 of Yelahanka Satellite Town Sub Division.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri Sridhar. Y. R, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	20-01-21	17-02-21	28	22500	730	32.44	32.37
	002	"	"	"	"	740	32.89	
	003	"	"	"	"	715	31.78	

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Vishwanagar A-block surrounding

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NC/QC/YD/2020-21/W3-VN-7A

Date: 19-02-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub. Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to roads and Drains at Viswanagara in ward no-03 of Yelahanka Satellite Town Sub Division.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri Sridhar. Y. R, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	22-01-21	19-02-21	28	22500	740	32.89	32.44
	002	"	"	"	"	730	32.44	
	003	"	"	"	"	720	32.00	

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Vishwanagar Samudhaya Bhavan Corner Side

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NEW TECHNOLOGIES TO INNOVATE

NC/QC/YD/2020-21/W3-VN-8A

Date: 24-02-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to roads and Drains at Viswanagara in ward no-03 of Yelahanka Satellite Town Sub Division.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri Sridhar. Y. R, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	27-01-21	24-02-21	28	22500	730	32.44	32.22
	002	"	"	"	"	720	32.00	
	003	"	"	"	"	725	32.22	

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Vishwanagar Samudhaya Bhavan Front Side

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NC/QC/YD/2020-21/W3-VN-9A

Date: 24-02-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to roads and Drains at Viswanagara in ward no-03 of Yelahanka Satellite Town Sub Division.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri Sridhar. Y. R, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	27-01-21	24-02-21	28	22500	730	32.44	32.52
	002	"	"	"	"	745	33.11	
	003	"	"	"	"	720	32.00	

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Vishwanagar Slum Area Main Road

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
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